

[illegible]

```
PPPPPPPP  LL      IIIIII  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE
PPPPPPPP  LL      IIIIII  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE
PP        PP  LL      II      DD      DD  AA      AA  TT      EE
PP        PP  LL      II      DD      DD  AA      AA  TT      EE
PP        PP  LL      II      DD      DD  AA      AA  TT      EE
PP        PP  LL      II      DD      DD  AA      AA  TT      EE
PPPPPPPP  LL      II      DD      DD  AA      AA  TT      EEEEEEEE
PPPPPPPP  LL      II      DD      DD  AA      AA  TT      EEEEEEEE
PP        LL      II      DD      DD  AAAAAAAAAA  TT      EE
PP        LL      II      DD      DD  AAAAAAAAAA  TT      EE
PP        LL      II      DD      DD  AA      AA  TT      EE
PP        LL      II      DD      DD  AA      AA  TT      EE
PP        LL      IIIIII  DDDDDDDD  AA      AA  TT      EEEEEEEEEE
PP        LLLLLLLLLL  IIIIII  DDDDDDDD  AA      AA  TT      EEEEEEEEEE
PP        LLLLLLLLLL  IIIIII  DDDDDDDD  AA      AA  TT      EEEEEEEEEE
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```

```
(1)      59      plisdate - return date
(1)      89      plitime - return time
(1)     121      subroutines
```

PL Sy SS SS AT AT AT AT AT AT AT AT AT AT DI FA FA FA FC FC FC FC FC FC FC FC FC FC FC FC FC FC FC FC FC FC FC KE KE KE

PLISTIME_DATE
1-002

M 13
- pl1 runtime routines for date and tim 16-SEP-1984 02:16:50 VAX/VMS Macro V04-00
6-SEP-1984 11:37:25 [PLIRTL.SRC]PLIDATE.MAR;1

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```
0000 1      .title plistime_date - pl1 runtime routines for date and time
0000 2      .ident /1-002/ ; Edit WHM1002
0000 3
0000 4      *****
0000 5      *
0000 6      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 22     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23     *
0000 24     *
0000 25     *****
0000 26
0000 27
0000 28     ++
0000 29     facility:
0000 30
0000 31         VAX/VMS pl1 runtime library.
0000 32
0000 33     abstract:
0000 34
0000 35         This module contains the pl1 runtime routines that format
0000 36         date and time
0000 37
0000 38     author:
0000 39         r. heinen 16-feb-1979
0000 40     modifications:
0000 41
0000 42
0000 43         1-002  Bill Matthews  29-September-1982
0000 44
0000 45         Invoke macros $defdat and rtshare instead of $defopr and share.
0000 46
0000 47     --
0000 48
0000 49
0000 50     external definitions
0000 51
0000 52
0000 53
0000 54     local data
0000 55
0000 56
0000 57     rtshare
```



```
0000 59 .sbtll plisdate - return date
0000 60 :++
0000 61 : plisdate - routine to return date
0000 62 :
0000 63 : functional decription:
0000 64 :
0000 65 : This routine returns the date in YYYYMMDD format.
0000 66 :
0000 67 : inputs:
0000 68 :
0000 69 :     r1 = address to return string - char(6)
0000 70 :
0000 71 : outputs:
0000 72 :
0000 73 :     string is returned.
0000 74 :--
0000 75 .entry plisdate,^m<r2,r3>
5E 0E C2 0002 76 subl #14,sp : allocate buffer
52 5E D0 0005 77 movl sp,r2 :
53 51 D0 0008 78 movl r1,r3 : save buffer address
50 82 3C 000B 79 $numtim_s timbuf= (r2) : get the time
51 51 D4 0019 80 movzwl (r2)+,r0 : get year
51 50 50 00000064 8F 7B 001B 81 clrl r1 : setup quad word
51 003F 30 0024 82 ediv #100,r0,r0,r1 : get remainder from 100
51 82 3C 0027 83 bsbw cvrt_two_char : convert two characters
51 0039 30 002A 84 movzwl (r2)+,r1 : get year
51 82 3C 002D 85 bsbw cvrt_two_char : convert to 2 chars
51 0033 30 0030 86 movzwl (r2)+,r1 : get day
0033 30 0030 87 bsbw cvrt_two_char : convert
0033 04 0033 88 ret : done
0034 89 .sbtll plitime - return time
0034 90 :++
0034 91 : plitime - routine to return time
0034 92 :
0034 93 : functional decription:
0034 94 :
0034 95 : This routine returns the time in HHMMSS format.
0034 96 :
0034 97 : inputs:
0034 98 :
0034 99 :     r1 = address to return string - char(6)
0034 100 :
0034 101 : outputs:
0034 102 :
0034 103 :     string is returned.
0034 104 :--
5E 0E C2 0034 105 .entry plitime,^m<r2,r3>
52 5E D0 0036 106 subl #14,sp : allocate buffer
53 51 D0 0039 107 movl sp,r2 : address buffer
52 06 C0 003C 108 movl r1,r3 : save buffer address
51 82 3C 003F 109 $numtim_s timbuf= (r2) : get the time
51 0013 30 004A 110 addl #6,r2 : point to time data
51 82 3C 004D 111 movzwl (r2)+,r1 : get hour
51 0013 30 0050 112 bsbw cvrt_two_char : convert two characters
51 82 3C 0053 113 movzwl (r2)+,r1 : get minute
51 000D 30 0056 114 bsbw cvrt_two_char : convert to 2 chars
51 82 3C 0059 115 movzwl (r2)+,r1 : get second
```

PLISTIME_DATE
1-002

B 14
- pl1 runtime routines for date and tim 16-SEP-1984 02:16:50 VAX/VMS Macro V04-00
pl1time - return time 6-SEP-1984 11:37:25 [PLIRTL.SRC]PLIDATE.MAR;1

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51	0007	30	005C	116	bsbw	cvrt_two_char	:	convert
	82	3C	005F	117	movzwl	(r2),r1	:	convert hundreths
	0001	30	0062	118	bsbw	cvrt_two_char	:	
		04	0065	119	ret		:	done

PLISTIME_DATE
1-002

C 14
- pl1 runtime routines for date and tim 16-SEP-1984 02:16:50 VAX/VMS Macro V04-00
subroutines 6-SEP-1984 11:37:25 [PLIRTL.SRC]PLIDATE.MAR;1

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```
0066 121      .sbttl subroutines
0066 122      :++
0066 123      : cvrt_two_char - convert number to two ascii characters
0066 124      :
0066 125      : inputs:
0066 126      :
0066 127      :     r1 = number to convert
0066 128      :     r3 = address to store data
0066 129      :
0066 130      : outputs:
0066 131      :
0066 132      :     r3 = updated address
0066 133      :--
0066 134      cvrt_two_char:
50 51 0A C7 0066 135      divl3    #10,r1,r0      ; get tens digit
83 50 30 81 006A 136      addb3    #^a/0/,r0,(r3)+ ; insert character
50 50 0A C4 006E 137      mull     #10,r0      :
51 51 50 C2 0071 138      subl     r0,r1      :
83 51 30 81 0074 139      addb3    #^a/0/,r1,(r3)+ ; remove tens value
05 0078 140      rsb              ; insert ones digit
0079 141      ;
0079 142      .end
```


CVRT TWO_CHAR	00000066	R	01
PLISDATE	00000000	RG	01
PLISTIME	00000034	RG	01
SYSSNUMTIM	*****	GX	01

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes														
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE				
_PLISCODE	00000079 (121.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.06	00:00:00.37
Command processing	65	00:00:00.54	00:00:07.50
Pass 1	67	00:00:00.66	00:00:03.41
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	29	00:00:00.31	00:00:01.38
Symbol table output	0	00:00:00.02	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	172	00:00:01.60	00:00:12.98

The working set limit was 750 pages.
 2479 bytes (5 pages) of virtual memory were used to buffer the intermediate code.
 There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.
 142 source lines were read in Pass 1, producing 14 object records in Pass 2.
 3 pages of virtual memory were used to define 3 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1	1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	2
TOTALS (all libraries)	3

16 GETS were required to define 3 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LISS:PLIDATE/OBJ=OBJ\$:PLIDATE MSRC\$:PLIDATE/UPDATE=(ENH\$:PLIDATE)+LIB\$:PLIRTMAC/LIB

0307 AH-BT13A-SE
VAX/VMS V4.0

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